CHARGE NUMBER: 2306

PROGRAM TITLE: Flavor Transfer

PROJECT LEADER: R. M. Ikeda

PERIOD COVERED: March 25 - April 25, 1973

DATE OF REPORT: May 1, 1973

I. Carbon Taste[1]

Acetaldehyde, isoprene and hydrogen sulfide were added to smoke of carbon filtered cigarets. These cigarets were smoked by the members of the descriptive panel. The panel found that acetaldehyde significantly decreased the intensity of carbon taste. Isoprene and hydrogen sulfide were found to have no significant effect on carbon taste, taste level or overall harshness at the levels added. Further studies will be carried out using higher levels of these compounds.

II. Menthol Transfer[2]

An additional nine pound lot of microencapsulated menthol was supplied to us by the 3M Company. A portion of the capsules was applied to cigaret filler with and without the addition of gum acacia in the spray solution. The gum acacia was used to serve as a bender to help retain the capsules on cigaret filler, since a considerable amount of menthol was lost in our previous application. These samples are being analyzed for menthol content prior to making cigarets.

III. AFX[3]

The material having the major odor component of Angelica root was identified by high resolution mass spectrometry as having an emphrical formula of $C_{12}H_{14}O_2$. This material was saponified by refluxing in alcoholic KOH which verified the lactone structure indicated by IR spectra.

IV. References

1. 6260 32-34, 37-39, 42, 43, 45, 46, 48-50, 57, 58
2. 6260 44, 52, 53, 56
3. 6193 5

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